

ABSTRACT

A system may include a plurality of nodes. Each node may include one or more active devices coupled to one or more memory subsystems. An active device included in
5 one of the nodes includes a memory management unit configured to receive a virtual address generated within that active device and to responsively output a global address identifying a coherency unit. A portion of the global address identifies a translation function. A memory subsystem included in the node is configured to perform the translation function identified by the portion of the global address on an additional
10 portion of the global address in order to obtain a local physical address of the coherency unit. Each active device included in the node is configured to use the portion of the global address identifying the translation function when determining whether a local copy of the coherency unit is currently stored in a cache associated with that active device.